

PTO/SB/21 (09-04)

JPW

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/685,743
Filing Date	October 14, 2003
First Named Inventor	Hideo Tabuchi
Art Unit	2162
Examiner Name	Hung Q. Pham
Attorney Docket Number	16869P-015010US

**ENCLOSURES (Check all that apply)**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Reply to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____<br><input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>USPTO forms SB08A & B (three pages),<br>copies of 3 cited references, Return Postcard |
|--|---|--|

Remarks	The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.
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**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	George B. F. Yee		
Date	6/1 '05	Reg. No.	37,478

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Roger Hilton	Date	6/2/05



Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180)

**Complete if Known**

Application Number 10/685,743  
Filing Date October 14, 2003  
First Named Inventor Hideo Tabuchi  
Examiner Name Hung Q. Pham  
Art Unit 2162  
Attorney Docket No. 16869P-015010US

**METHOD OF PAYMENT** (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity	Small Entity	Small Entity	Small Entity	Small Entity	Small Entity	
	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

**Fee Description** **Small Entity**  
**Fee (\$)** **Fee (\$)**  
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent 50 25  
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 100  
Multiple dependent claims 360 180

**Total Claims** **Extra Claims** **Fee (\$)** **Fee Paid (\$)** **Multiple Dependent Claims**  
\_\_\_\_\_ -20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ **Fee (\$)** **Fee Paid (\$)**  
HP = highest number of total claims paid for, if greater than 20  
**Indep. Claims** **Extra Claims** **Fee (\$)** **Fee Paid (\$)**  
\_\_\_\_\_ -3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
HP = highest number of independent claims paid for, if greater than 3

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

**Total Sheets** **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fee Paid (\$)**  
\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Information Disclosure Stmt

**Fees Paid (\$)**

180

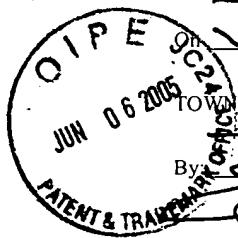
**SUBMITTED BY**

Signature		Registration No. 37,478 (Attorney/Agent)	Telephone 650-326-2400
Name (Print/Type)	George B. F. Yee		Date 6/1/05

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

PATENT  
Attorney Docket No.: 16869P-015010US  
Client Reference No.: 340000157US2



TOWNSEND and TOWNSEND and CREW LLP

By:   
Roger Hylton

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Hideo Tabuchi et al.

Application No.: 10/685,743

Filed: October 14, 2003

For: METHOD FOR DUPLICATING  
DATA OF STORAGE SUBSYSTEM  
AND DATA DUPLICATING SYSTEM

Examiner: Hung Q. Pham

Art Unit: 2162

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the cited foreign patent and non-patent references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

06/06/2005 NGUYEN 00000062 201430 10685743

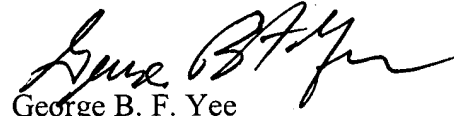
01 FC:1806 180.00 DA

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

  
George B. F. Yee  
Reg. No. 37,478

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
San Francisco, California 94111-3834  
Tel: 650-326-2400  
Fax: 650-326-2422  
GBFY:rnk



Substitute for form PTO/SB/08A/PTO		<b>Complete if Known</b>	
		Application Number	10/685,743
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	October 14, 2003
		First Named Inventor	Hideo Tabuchi
		Art Unit	2162
		Examiner Name	Hung Q. Pham
		Attorney Docket Number	16869P-015010US
Sheet	1	of	3

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	1	US-2004/0199737	10-07-2004	Yamamoto et al.	
	2	US-2004/0088484	05-06-2004	Yamamoto et al.	
	3	US-2004/0068628	04-28-2004	Suzuki et al.	
	4	US-2003/0182526 A1	09-25-2003	Mikkelsen, et al.	
	5	US-6,615,332	09-02-2003	Yamamoto et al.	
	6	US-6,539,462 B1	03-29-2003	Mikkelsen, et al.	
	7	US-6,535,994	03-18-2003	Kedem	
	8	US-6,535,967	03-18-2003	Milillo, et al.	
	9	US-6,446,175	09-03-2002	West, et al.	
	10	US-6,415,373	07-02-2002	Peters et al.	
	11	US-6,408,370	06-18-2002	Yamamoto et al.	
	12	US-6,324,654	11-27-2001	Wahl, et al.	
	13	US-2001/0010070	07-26-2001	Crockett et al.	
	14	US-6,260,124	07-10-2001	Crockett et al.	
	15	US-6,185,659	02-06-2001	Milillo et al.	
	16	US-6,178,521	01-23-2001	Filgate	
	17	US-6,173,293	01-09-2001	Thekkath, et al.	
	18	US-6,161,165	12-12-2000	Solomon, et al.	
	19	US-6,157,991	12-05-2000	Arnon	
	20	US-6,052,799	04-18-2000	Le et al.	
	21	US-6,044,444	03-28-2000	Ofek	
	22	US-09/526,948	03-16-2000	Tabuchi et al.	
	23	US-09/513,932	02-28-2000	Tabuchi et al.	
	24	US-5,949,970	09-07-1999	Sipple et al.	
	25	US-5,937,414	08-10-1999	Souder et al.	
	26	US-5,893,140	04-06-1999	Vahalia et al.	
	27	US-5,870,537	02-09-1999	Kern et al.	
	28	US-5,845,328	12-01-1998	Maya et al.	
	29	US-5,799,141	08-25-1998	Galipeau et al.	
	30	US-5,742,792	04-21-1998	Yanai et al.	
	31	US-5,734,818	03-31-1998	Kern et al.	
	32	US-5,720,029	02-17-1998	Kern et al.	
	33	US-5,615,329	03-25-1997	Kern et al.	
	34	US-5,592,618	01-07-1997	Micka et al.	
	35	US-5,555,371	09-10-1996	Duyanovich et al.	
	36	US-5,544,347	08-06-1996	Yanei et al.	
	37	US-5,446,871	08-29-1995	Sholmer et al.	
	38	US-5,390,327	02-14-1995	Lubbers et al.	
	39	US-5,257,352	10-26-1993	Yamamoto et al.	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.  
60498368 v2

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/685,743
				Filing Date	October 14, 2003
				First Named Inventor	Hideo Tabuchi
				Art Unit	2162
				Examiner Name	Hung Q. Pham
Sheet	2	of	3	Attorney Docket Number	16869P-015010US

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	40	JP	09-325917	A	12-16-1997	Hitachi Ltd.		<input checked="" type="checkbox"/>

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

60498368 v2

Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/685,743
				Filing Date	October 14, 2003
				First Named Inventor	Hideo Tabuchi
				Art Unit	2162
				Examiner Name	Hung Q. Pham
Sheet	3	of	3	Attorney Docket Number	16869P-015010US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	41	IBM 3990/9390 Storage Control Introduction, 9th Edition, IBM Corporation, pp. 23-26 and 78-89 (October 1996).		
	42	"Digital Storage SCSI Bus Extenders/Converters and UltraSCSI Hubs version 2.0," pp. 7.1 - 7.5, Digital Equipment Corporation (March 1998).		

Examiner Signature		Date Considered	
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.